



ARIZONA DEPARTMENT OF WATER RESOURCES  
Records Management Section  
500 N. 3rd Street \* Phoenix, Arizona 85004  
(602) 417-2405 \* (800) 352-8488  
www.water.az.gov



# Driller Report and Well Log

Information Management

FILE NUMBER

D(18-20) 30 DDC

WELL REGISTRATION NUMBER

55- 200053

PERMIT NUMBER ( IF ISSUED )

\* Review instructions prior to completing form

\* This report should be prepared by the driller in detail and filed with the Department within 30 days following completion of the well.

\*\* PLEASE PRINT CLEARLY \*\*

## SECTION 1. REGISTRY INFORMATION

<b>Well Owner</b>		<b>Location of Well</b>					
FULL NAME OF COMPANY, ORGANIZATION OR INDIVIDUAL		WELL LOCATION ADDRESS (IF KNOWN)					
THE CAVERNS LLC							
MAILING ADDRESS		TOWNSHIP (N/S)	RANGE (E/W)	SECTION	160 ACRE	40 ACRE	10 ACRE
3040 BEAR CANYON		18S	20E	30	SE 1/4	SE 1/4	SW 1/4
CITY / STATE / ZIP		LATITUDE		LONGITUDE			
TUCSON, AZ 85749		° ' " N		° ' " W			
CONTACT PERSON NAME AND TITLE		LAND SURFACE ELEVATION AT WELL					
		Feet Above Sea Level					
TELEPHONE NUMBER		METHOD OF LATITUDE / LONGITUDE (CHECK ONE)					
-		<input type="checkbox"/> Hand-Held					
FAX		<input type="checkbox"/> USGS Quad Map <input type="checkbox"/> Conventional Survey <input type="checkbox"/> GPS : <input type="checkbox"/> Survey-Grade					
		COUNTY ASSESSOR'S PARCEL ID NUMBER					
		BOOK	MAP	PARCEL			
		124	40	101A			
		COUNTY WHERE WELL IS LOCATED					
		COCHISE					

## SECTION 2. DRILLING AUTHORIZATION

<b>Drilling Firm</b>	
NAME	
B-J DRILLING COMPANY, INC.	
DWR LICENSE NUMBER	
25	
TELEPHONE NUMBER	FAX
520-586-3282	

ENTERED MAR 11 2004

## SECTION 3. WELL CONSTRUCTION DETAILS

DATE WELL CONSTRUCTION STARTED	DATE WELL CONSTRUCTION COMPLETED	IF FLOWING WELL, METHOD OF FLOW REGULATION
9/23/03	9/25/03	<input type="checkbox"/> Valve <input type="checkbox"/> Other
<b>Drill Method</b>	<b>Method of Well Development</b>	<b>Method of Sealing at Reduction Points</b>
CHECK ONE <input checked="" type="checkbox"/> Air Rotary <input type="checkbox"/> Bored or Augered <input type="checkbox"/> Cable Tool <input type="checkbox"/> Dual Rotary <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Reverse Circulation <input type="checkbox"/> Driven <input type="checkbox"/> Jetted <input type="checkbox"/> Air Percussion / Odex Tubing <input type="checkbox"/> Other (please specify)	CHECK ONE <input checked="" type="checkbox"/> Airlift <input type="checkbox"/> Bail <input type="checkbox"/> Surge Back <input type="checkbox"/> Surge Pump <input type="checkbox"/> Other (please specify)	CHECK ONE <input type="checkbox"/> None <input type="checkbox"/> Packed <input type="checkbox"/> Swedged <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Other (please specify) NEET CEMENT
	<b>Water Level Information</b>	
	STATIC WATER LEVEL	
	721.4 Feet Below Land Surface	
	DATE MEASURED	
	9/25/03	

**SECTION 4. WELL CONSTRUCTION DESIGN (AS BUILT)** (attach additional page if needed)

Borehole			Installed Casing													
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (inches)	MATERIAL TYPE (X)				PERFORATION TYPE (X)						SLOT SIZE IF ANY (inches)
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	
0	20	12½	+1	20	7 OD	X				X						
20	980	6½	0	880	5 OD		X			X						
			880	980	5 OD		X							X		1/8X6X4

Installed Annular Material											Filter Pack		
DEPTH FROM SURFACE		ANNULAR MATERIAL TYPE (X)											
FROM (feet)	TO (feet)	NONE	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	BENTONITE GROUT	CHIPS	PELLETS	IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE		SAND	GRAVEL	SIZE
0	20			X									

DEPTH OF BORING

980

Feet Below Land Surface

DEPTH OF COMPLETED WELL

980

Feet Below Land Surface

## Well Driller Report and Well Log

WELL REGISTRATION NUMBER

55- 200053

## SECTION 5. GEOLOGIC LOG OF WELL

[illegible]

# Well Driller Report and Well Log

WELL REGISTRATION NUMBER

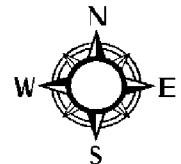
**55- 200053**

## SECTION 6. WELL SITE PLAN

NAME OF WELL OWNER <b>THE CAVERNS LLC</b>	COUNTY ASSESSOR'S PARCEL ID NUMBER		
	BOOK <b>124</b>	MAP <b>40</b>	PARCEL <b>101A</b>

- Please draw the following: (1) the boundaries of property on which the well was located; (2) the proposed well location; (3) the locations of all septic tank systems and sewer systems on the property or within 100 feet of the well location, even if on neighboring properties; and (4) any permanent structures on the property that may aid in locating the well.
- Please indicate the distance between the well location and any septic tank system or sewer system.

SEE COUNTY RECORDS OR COUNTY HEALTH  
DEPARTMENT FOR PLOT DRAWING



1" = \_\_\_\_\_ ft

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

DRILLING BY **DRILLING COMPANY**

SIGNATURE OF QUALIFYING PARTY

DATE

*Robert S. Johnson* 2/10/04

ARIZONA DEPARTMENT OF WATER RESOURCES  
GROUNDWATER MANAGEMENT SUPPORT SECTION  
500 North Third Street  
Phoenix, Arizona 85004

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILL OPERATIONS

WELL REGISTRATION NO: 55-200053

AUTHORIZED DRILLER: B-J DRILLING COMPANY, INC.

LICENSE NO: 25

NOTICE OF INTENTION TO DRILL A NON-EXEMPT WELL(S) HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: THE CAVERNS LLC 3040 BEAR CANYON TUCSON, AZ 85749

The well(s) is/are to be located in the:

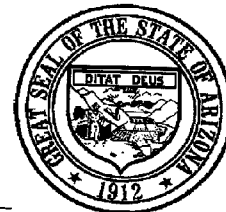
SW ¼ of the SE ¼ of the SE ¼ Section 30 Township 18 SOUTH Range 20 EAST

No. of wells in this project: 1

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE 18TH DAY OF AUGUST, 2004

  
GROUNDWATER MANAGEMENT SUPPORT

THE DRILLER MUST FILE A LOG OF THE WELL  
WITHIN 30 DAYS OF COMPLETION OF DRILLING





Arizona Department of Water Resources  
Water Management Support Section  
P.O. Box 458 Phoenix, Arizona 85001-0458  
(602) 417-2470 • (800) 362-8488  
www.water.az.gov

AUG 19 2003

**Notice of Intent to  
Drill, Deepen, Replace or Modify a Well**  
(except a Non-Exempt Well in an Active Management Area)

\$150 or  
\$60 FEE

- Review instructions prior to completing form in black or blue ink.
- You must include with your Notice of Intent:
  - Check or money order in the amount of the appropriate filing fee. For a well located within an AMA or INA, the fee is \$150.00. For a well not located within an AMA or INA, the fee is \$50.00 if the well will be used solely for domestic purposes (see page 2 and instructions) and will have a pump with a maximum capacity of not more than 35 gallons per minute. Otherwise, the fee is \$150.00.
- Authority for fee: A.R.S. § 45-596.

**\*\* PLEASE PRINT CLEARLY \*\***

<b>SECTION 1: COUNTY OR LOCAL AUTHORITY APPROVAL</b> If water from the proposed well will be used for domestic purposes on a parcel of land of 5 or fewer acres, the applicable county or local health authority must endorse all items in Section 1 before submission to the Department of Water Resources. You must also attach a site plan (see instructions).		
<b>CHECK ONE</b> <input type="checkbox"/> County or Local Health Authority Recommends Approval (pursuant to A.R.S. § 45-596 (G) and (F)) <input type="checkbox"/> Field Inspection Performed <input type="checkbox"/> Site Plan Review Only <input type="checkbox"/> Insufficient Information to Make a Determination		<b>Official County or Local Seal or Stamp</b>
<b>COUNTY OR LOCAL AUTHORITY NAME AND TITLE</b>		
<b>TELEPHONE NUMBER</b>	<b>DATE</b>	<b>COUNTY OR LOCAL AUTHORITY SIGNATURE</b>

<b>SECTION 2: WELL INFORMATION</b>		
<b>Well Type</b> <b>CHECK ONE</b> <input checked="" type="checkbox"/> <b>Exempt</b> (Pump has a maximum capacity of not more than 35 gpm and water is not used for irrigation purposes inside an AMA.) (See instructions.) <input checked="" type="checkbox"/> <b>Non-Exempt</b> (Pump has a maximum capacity of more than 35 gpm or water is used for irrigation purposes inside an AMA.) (See instructions.)	<b>Proposed Action</b> <b>CHECK ONE</b> <input type="checkbox"/> Drill New Well <input type="checkbox"/> Deepen <input type="checkbox"/> Replace <input type="checkbox"/> Modify If Deepening, Replacing or Modifying: ORIGINAL WELL REGISTRATION NUMBER 55 - MAXIMUM CAPACITY OF ORIGINAL WELL Gallons Per Minute DESIGN PUMP CAPACITY 100 Gallons Per Minute	<b>Location of Well</b> WELL LOCATION ADDRESS (IF ANY) TOWNSHIP (NS) RANGE (EW) SECTION 160 ACRE 40 ACRE 10 ACRE 18S 20E 30 SE ¼ SE ¼ SW ¼ COUNTY ASSESSOR'S PARCEL ID NUMBER BOOK 124 MAP 40 PARCEL 010A # OF ACRES 303.3 PLACE OF WATER USE (ONLY IF DIFFERENT FROM LOCATION OF WELL) TOWNSHIP (NS) RANGE (EW) SECTION 160 ACRE 40 ACRE 10 ACRE COCHISE COUNTY WHERE WELL IS LOCATED

<b>SECTION 3: OWNER INFORMATION</b>	
<b>Well Owner</b> FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL THE CAVERNS LLC MAILING ADDRESS 3040 BEAR CANYON CITY / STATE / ZIP CODE TUCSON, AZ 85749 CONTACT PERSON NAME AND TITLE MARK KARTCHNER TELEPHONE NUMBER FAX	<b>Landowner (if different from Well Owner)</b> FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL MAILING ADDRESS CITY / STATE / ZIP CODE CONTACT PERSON NAME AND TITLE TELEPHONE NUMBER FAX

<b>SECTION 4: QUESTIONS</b>			
Questions	Yes	No	If Yes:
1. Is the proposed well site within 100 feet of a septic tank system, sewer disposal area, landfill, hazardous materials or petroleum storage area or tank?		X	You must also request a variance (A.A.C. R12-15-818).
2. Is there another well name or identification number associated with this well?		X	PLEASE STATE
3. Is the proposed well the second exempt well on this parcel for the same use?		X	If the proposed well is in an Active Management Area, you must also file a supplemental form 55-40A.

Notice of Intent to Drill, Deepen, Replace or Modify a Well

<b>Drilling Firm</b>		<b>Purpose of Well</b>		<b>Check All That Apply</b>	
NAME B-J DRILLINGS COMPANY, INC.		<b>CHECK ONE</b>		<b>CHECK ALL THAT APPLY</b>	
DWR LICENSE NUMBER 25	RCC LICENSE CATEGORY A-04	<input type="checkbox"/> Irrigation		<input type="checkbox"/> Irrigation	
TELEPHONE NUMBER 520-586-3282	FAX 520-623-1010	<input type="checkbox"/> Utility		<input type="checkbox"/> Utility	
MAILING ADDRESS P. O. BOX 815		<input type="checkbox"/> Commercial		<input checked="" type="checkbox"/> Commercial	
CITY / STATE / ZIP CODE BENSON, AZ 85602		<input checked="" type="checkbox"/> Domestic		<input checked="" type="checkbox"/> Domestic	
		<input type="checkbox"/> Municipal		<input type="checkbox"/> Municipal	
		<input type="checkbox"/> Industrial		<input type="checkbox"/> Industrial	
		<input type="checkbox"/> Mining		<input type="checkbox"/> Mining	
		<input type="checkbox"/> Stock		<input type="checkbox"/> Stock	
		<input type="checkbox"/> Recharge		<input type="checkbox"/> Recharge	
		<input type="checkbox"/> Dewatering		<input type="checkbox"/> Dewatering	
		<input type="checkbox"/> Other (please specify):		<input type="checkbox"/> Other (please specify):	

RECEIVED  
AUG 19 2003

DATE CONSTRUCTION IS TO BEGIN

8/2003

GROUNDWATER MGT

Borehole			Casing													
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (inches)	MATERIAL TYPE (T)				PERFORATION TYPE (P)					GROUTING MATERIAL	
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED		IF OTHER TYPE, DESCRIBE
0	20	12	+1	20	7"	X*				X						Cement
20	700	6 1/2	0	700	5"		X			X			X			

\* ADWR well construction standards require a surface seal consisting of a minimum of 20 feet of steel casing. Cement grout must be used to fill the annular space between the surface casing and the borehole. (A.A.C. R12-15-611(B))

The Department's issuance of an authorization to drill a well is not a determination of whether water withdrawn from the well is legally surface water or groundwater. The legal nature of the water withdrawn from the well may be the subject of court action in the future as part of a determination of surface water rights in your area. If there are court proceedings that could affect your well, you will be notified and be given the opportunity to participate. If you have questions regarding the legal nature of the water to be withdrawn from your proposed well, please consult with an experienced civil engineer, hydrologist or water rights attorney.

For the purposes of determining appropriate fees outside AMAs or INAs, "domestic purposes" is defined as "uses related to the supply, service and activities of households and private residences and includes the application of water to less than 2 acres of land to produce plants or parts of plants for sale or human consumption, or for use as feed for livestock, range livestock or poultry, as such terms are defined in A.R.S. § 3-1201."

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.	
TYPE OR PRINT NAME AND TITLE MARK M. KARTCHNER, MANAGER	
SIGNATURE OF WELL OWNER OR LANDOWNER <i>Mark M. Kartchner</i>	DATE 8/18/03



Arizona Department of Water Resources  
Water Management Support Section  
P.O. Box 458 • Phoenix, Arizona 85001-0458  
(602) 417-2470 • (800) 352-8488  
www.water.az.gov

**Notice of Intent to  
Drill, Deepen, Replace or Modify a Well**  
(except a Non-Exempt Well in an Active Management Area)

\$150 or  
\$50 FEE

- Review instructions prior to completing form in black or blue ink.
- You must include with your Notice:
  - Check or money order in the amount of the appropriate filing fee. For a well located within an AMA or INA, the fee is \$150.00. For a well not located within an AMA or INA, the fee is \$50.00 if the well will be used solely for domestic purposes (see page 2 and instructions) and will have a pump with a maximum capacity of not more than 35 gallons per minute. Otherwise, the fee is \$150.00.
- Authority for fee: A.R.S. § 45-596

**\*\* PLEASE PRINT CLEARLY \*\***

AUG 19 2003

If water from the proposed well will be used for domestic purposes on a parcel of land of 5 or fewer acres, the applicable county or local health authority must endorse all items in Section 1 before submission to the Department of Water Resources. You must also attach a site plan (see instructions).

CHECK ONE

- ☐ County or Local Health Authority Recommends Approval  
(pursuant to A.R.S. § 45-596 (G) and (F))

NATIONAL BANK OF ARIZONA  
BENSON, AZ 85601  
91-532/1221

49428

08/18/2003

PAY TO THE  
ORDER OF **ARIZONA DEPARTMENT OF WATER RESOURCES**

\$ 150.00

ONE HUNDRED FIFTY AND 00/100-----

DOLLARS

ARIZONA DEPARTMENT OF WATER RESOURCES  
WATER MANAGEMENT SUPPORT SECTION  
P.O. BOX 458  
PHOENIX, AZ 85001-0458

MEMO **CAVERNS LLC PERMIT**

SECTION 3: OWNER INFORMATION	
Well Owner	Groundwater Management Agency
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL <b>THE CAVERNS LLC</b>	FULL NAME OF COMPANY, GOVERNMENT AGENCY, OR INDIVIDUAL
MAILING ADDRESS <b>3040 BEAR CANYON</b>	MAILING ADDRESS
CITY / STATE / ZIP CODE <b>TUCSON, AZ 85749</b>	CITY / STATE / ZIP CODE
CONTACT PERSON NAME AND TITLE <b>MARK KARTCHNER</b>	CONTACT PERSON NAME AND TITLE
TELEPHONE NUMBER	FAX
TELEPHONE NUMBER	FAX

SECTION 4: Questions	
1. Is the proposed well site within 100 feet of a septic tank system, sewer disposal area, landfill, hazardous materials or petroleum storage area or tank?	X You must also request a variance (A.A.C. R12-15-818).
2. Is there another well name or identification number associated with this well?	X PLEASE STATE
3. Is the proposed well the second exempt well on this parcel for the same use?	X If the proposed well is in an Active Management Area, you must also file a supplemental form 55-40A.



Review Sheet for Notices of Intention (NOI) to Drill or Abandon Wells (Updated 07/24/2003)

Well Owner Name The Caverns Date 8-28-03  
Well Location DC18-20130 DDC Well Registration Number: 55-200053



Permission has been granted to drill, deepen, replace, modify or abandon the well indicated on the attached NOI.



Permission has been granted to drill or abandon the well indicated on the attached NOI.

However, special well construction or abandonment requirements may apply since the proposed well is located near or within the boundary of a groundwater contamination site. See attached special requirements or visit the ADWR "WQARF" homepage on the ADWR website at <http://www.water.az.gov/> for further information on "Special well drilling requirements for wells located within areas of groundwater contamination". Please be aware that groundwater produced from the proposed well may not meet applicable federal, state, county or local water quality standards.

The checked special well drilling requirements apply to the indicated well (see attachments):

- ☐ Standard Special Requirements (applies to contamination areas not covered by site-specific requirements)
- ☐ Pinal Creek Special Requirements
- ☐ Yuma Marine Corps Air Station Special Requirements
- ☐ Well Abandonment Handbook (see Standard Method or Alternatives 2 or 3)



Permission has not been granted to drill or abandon the well indicated on the attached NOI for the following reason(s):



Insufficient filing fee submitted\*. Your check for \$\_\_\_\_\_ is being returned to you. You must resubmit this review sheet, the attached NOI form (with any changes indicated below) and a check for the appropriate fee, which is \$\_\_\_\_\_.

\*NOI filing fees were increased on May 7, 2003. The appropriate filing fee for a well located within an AMA or INA is \$150. For a well not located within an AMA or INA, the fee is \$50 if the well will be used solely for domestic purposes and will have a pump with a maximum capacity of not more than 35 gallons per minute. Otherwise the fee is \$150.



County or local health official endorsement and approval is required but was not provided.



Insufficient information to determine if well meets 100-foot setback requirement. Well owner must sign and return the attached certification form if well meets 100-foot minimum set-back requirement.



Incomplete or incorrect well location information.



Incomplete or incorrect well owner information.



Land owner permission to drill letter is required.



Proposed well is located within 100 feet of a septic system, sewer disposal area, landfill, hazardous waste materials or petroleum storage area or tank.



Well driller information incomplete.



Well driller is not currently licensed with ADWR and/or the Registrar of Contractors.



Well construction information is incomplete, you must include design pump capacity (if applicable), well depth, well diameter and type of casing (if applicable).



Well abandonment information is incomplete, you must include information on proposed well abandonment design (see ADWR Well Abandonment Handbook)



Well owner or landowner information and/or signature incomplete or incorrect.



Variance request has not been granted. Explanation: \_\_\_\_\_



Other: \_\_\_\_\_

If permission to drill or abandon the specified well has not been granted, please correct all indicated errors and/or deficiencies and resubmit the corrected NOI form, this review sheet, and any attachments (if applicable) to ADWR. Unless stated above, no additional fees are required to resubmit this NOI. Be sure to submit all necessary information with your corrected NOI. The original NOI file will not be reviewed when ADWR reviews your corrected NOI. You must resubmit all the required information within 60 days, or you will need to file a new NOI with a new fee. Note: If you do not have the necessary information or need help, please contact your driller/consultant.

Mail resubmittals to: ADWR NOI-Resubmittals  
PO Box 458  
Phoenix Arizona 85001-0458

**ARIZONA DEPARTMENT OF WATER RESOURCES**

500 North 3rd Street, Phoenix, Arizona 85004

Telephone (602) 417-2470

Fax (602) 417-2422

August 28, 2003



**Janet Napolitano**  
Governor

**Herb Cuenther**  
Director

THE CAVERNS LLC  
3040 BEAR CANYON  
TUCSON, AZ 85749

Registration No. 55-200053

File No. D(18-20) 30 DDC

Dear Well Owner:

Enclosed is a copy of the Notice of Intention (NOI) to Drill a well. This NOI, which was recently filed with this Department, is being returned to you as evidence of your compliance with ARS §45-596. The enclosed Pump Installation Completion Report is to be submitted when pump equipment is installed. The drilling card and Well Drilling Report form have been sent to your driller. He may not begin drilling until he has received the drilling card and it must be displayed on the rig during drilling. If you change drillers, you must supply this Department with the new driller's identity. Please ensure that the driller you select is licensed to drill the type of well you require. All well drillers must pass an examination proving they understand the drilling methods for that particular license, and are familiar with the laws and regulations which govern well construction in Arizona.

If it is necessary to change the location of the proposed well, immediately contact the Department of Water Resources to obtain written permission before proceeding with the drilling. A properly signed, amended drilling card must be in the possession of the driller before drilling commences at a different location than originally authorized.

ARS §45-600 requires the registered well owner to submit a Pump Installation Completion Report within thirty (30) days after the installation of pumping equipment. It also requires the driller to furnish this Department a complete and accurate Well Drillers Report and Well Log within thirty (30) days after completion of drilling. You should insist, and ensure, that both of these are done.

If in the course of drilling a new well, it is determined that the new well cannot be successfully completed as initially intended (dry hole, cave in, lost tools, etc.), the new well must be properly abandoned and a Well Abandonment Completion Report submitted per R12-15-816.F.

Per ARS §45-593 (C), the person to whom a well is registered shall notify this Department of a change in ownership of the well and/or information pertaining to the physical characteristics of the well in order to keep this well registration file current and accurate. We have enclosed a Change of Well Information Form should it be needed in the future.

Sincerely,

Monica Ortiz  
NOI Unit  
Water Management Support Section

Enclosures